



# PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION

110 Union Street, Suite 500 • Seattle, WA 98101-2038

Telephone: (206) 689-4052

## Notice of Construction and Application for Approval

**FORM P**  
SIDE 1

Be sure to complete items 39, 40, 41, & 43 before  
submitting Form P.

(AGENCY USE ONLY)

DATE \_\_\_\_\_ N/C NUMBER \_\_\_\_\_

REG. NO. \_\_\_\_\_ VAR. NO. \_\_\_\_\_

SIC. NO. \_\_\_\_\_ COS. NO. \_\_\_\_\_

GRID NO. \_\_\_\_\_ UTM \_\_\_\_\_

1. TYPE OF BUILDING (Check) <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing	2. STATUS OF EQUIPMENT (Check) <input checked="" type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Altered <input type="checkbox"/> Relocation	7. APPLICANT
3. COMPANY (OR OWNER) NAME Ash Grove Cement Company		8. APPLICANT ADDRESS
4. COMPANY (OR OWNER) MAILING ADDRESS 3801 E. Marginal Way So, Seattle, WA 98134		9. INSTALLATION ADDRESS SAME
5. NATURE OF BUSINESS Manufacturer of Portland Cement		10. TYPE OF PROCESS

EQUIPMENT (ENTER ONLY NEW EQUIPMENT OR CHANGES. ENTER NUMBER OF UNITS OF EQUIPMENT IN COLUMN 'NO. OF UNITS.' COMPLETE FORM 'S' FOR EACH ENTRY.)

11. NO. OF UNITS	SPACE HEATERS OR BOILERS (Complete Form S-A)	14. NO. OF UNITS	OVENS	15. NO. OF UNITS	MECHANICAL EQUIP.	16. NO. OF UNITS	MELTING FURNACES
(a) _____		(a) _____	CORE BAKING OVEN	(a) _____	AREAS	(a) _____	POT
12. NO. OF UNITS	INCINERATORS (Complete Form S-B)	(b) _____	PAINT BAKING	(b) _____	BULK CONVEYOR	(b) _____	REVERBERATORY
(a) _____		(c) _____	PLASTIC CURING	(c) _____	CLASSIFIER	(c) _____	ELECTRIC INOC/RESIST
13. NO. OF UNITS	OTHER SYSTEMS	(d) _____	LITHO COATING OVEN	(d) _____	STORAGE BIN	(d) _____	CRUCIBLE
(a) _____		(e) _____	DRYER	(e) _____	BAGGING	(e) _____	CUPOLA
(b) _____	DEGREASING, SOLVENT	(f) _____	ROASTER	(f) _____	OUTSIDE BULK STORAGE	(f) _____	ELECTRIC ARC
(c) _____	ABRASIVE BLASTING	(g) _____	KILN	(g) 1	LOADING OR UNLOADING	(g) _____	SWEAT
(d) _____	OTHER — SYSTEM	(h) _____	HEAT-TREATING	(h) _____	BATCHING	(h) _____	OTHER METALLIC
		(i) _____	OTHER	(i) _____	MIXER (SOLID)	(i) _____	GLASS
		(j) _____		(j) _____	OTHER	(j) _____	OTHER NON-METALLIC
17. NO. OF UNITS	GENERAL OPER. EQUIP.	17. NO. OF UNITS	GENERAL OPER. EQUIP.	17. NO. OF UNITS	GENERAL OPER. EQUIP.	18. NO. OF UNITS	OTHER EQUIPMENT
(a) _____	CHEMICAL MILLING	(f) _____	GALVANIZING	(k) _____	ASPHALT BLOWING	(a) _____	SPRAY PAINTING GUN
(b) _____	PLATING	(g) _____	IMPREGNATING	(l) _____	CHEMICAL COATING	(b) _____	SPRAY BOOTH OR ROOM
(c) _____	DIGESTER	(h) _____	MIXING OR FORMULATING	(m) _____	COFFEE ROASTER	(c) _____	FLOW COATING
(d) _____	DRY CLEANING	(i) _____	REACTOR	(n) _____	SAWS & PLANERS	(d) _____	FIBERGLASSING
(e) _____	FORMING OR MOLDING	(j) _____	STILL	(o) _____	STORAGE TANK	(e) _____	OTHER

CONTROL DEVICES (ENTER NUMBER OF UNITS OF EQUIPMENT IN SPACES IN COLUMNS. COMPLETE A FORM R FOR EACH ENTRY.)

19. NO. OF UNITS	CONTROL DEVICE	20. NO. OF UNITS	CONTROL DEVICE	21. NO. OF UNITS	CONTROL DEVICE	22. NO. OF UNITS	CONTROL DEVICE
(a) _____	SPRAY CURTAIN	(a) _____	AIR WASHER	(a) _____	ABSORBER	(a) _____	DEMISTER
(b) _____	CYCLONE	(b) _____	WET COLLECTOR	(b) _____	AOSORBER	(b) 1	BAGHOUSE
(c) _____	MULTIPLE CYCLONE	(c) _____	VENTURI SCRUBBER	(c) _____	FILTER PADS	(c) _____	ELEC. PRECIPITATOR
(d) _____	INERTIAL COLL. — OTHER	(d) _____		(d) _____	AFTERBURNER	(d) _____	OTHER

23. BASIC EQUIPMENT COST (Estimate) \$50,000	24. CONTROL EQUIPMENT COST (Estimate) \$23,000	25. DAILY HOURS As Required up to 1,000 hr./yr. FROM _____ AM TO _____ PM	26. DAYS OF OPERATION (Circle) As Required S M T W T F S
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27. ESTIMATED STARTING DATE OF CONSTRUCTION: March 7, 1994	28. ESTIMATED COMPLETION DATE OF CONSTRUCTION: April 29, 1994
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29. RAW MATERIALS (List starting material used in process) AND FUELS (Type and amount)	ANNUAL AMT. UNITS	30. PRODUCTS (List End Products)	ANNUAL PROD. UNITS
(a) _____		(a) _____	
(b) _____		(b) _____	
(c) _____		(c) _____	
(d) _____		(d) _____	
(e) _____		(e) _____	
(f) _____		(f) _____	
(g) _____		(g) _____	
(h) _____		(h) _____	
(i) _____		(i) _____	
(j) _____		(j) _____	

# Notice of Construction Application | FORM P

STACKS OR VENTS (LIST NUMBER, TYPE, AND SIZE OF VENT)

31. NO. OF UNITS	DESCRIPTION OF OPENING	32. HEIGHT ABOVE GRADE (FT.)	33. VOLUME EXHAUSTED (ACFM)	DIMENSIONS (INCHES)	
				34. LENGTH (OR DIAM)	35. WIDTH
(a)	STACKS				
(b)	FLUES				
(c)	PROCESS OR GENERAL EXHAUST	30' - 0'	1000	10"	10"
(d)	PROCESS OR GENERAL VENTS				
(e)	SKYLIGHT OR WINDOW				
(f)	EXHAUST HOOD				
(g)	OTHER				

## FLOW DIAGRAM

### 36. FLOW DIAGRAM INSTRUCTIONS:

- (a) FLOW DIAGRAM MAY BE SCHEMATIC. ALL EQUIPMENT SHOULD BE SHOWN WITH EXISTING EQUIPMENT SO INDICATED.
- (b) SHOW FLOW DIAGRAM OF PROCESS STARTING WITH RAW MATERIALS USED AND ENDING WITH FINISHED PRODUCT.
- (c) IF MORE THAN ONE PROCESS IS INVOLVED TO MAKE FINISHED PRODUCT, SHOW EACH PROCESS AND WHERE THEY MERGE.
- (d) INDICATE ALL POINTS IN PROCESS WHERE GASEOUS OR PARTICULATE POLLUTANTS ARE EMITTED.
- (e) FLOW CHART CAN BE ATTACHED SEPARATELY IF NECESSARY. (DRAWINGS MAY BE SUBMITTED INSTEAD IF DESIRED).
- (f) SHOW PICKUP AND DISCHARGE POINTS FOR HANDLING OR CONVEYING EQUIPMENT.

SEE ATTACHED

### 37. LIST OF ATTACHMENTS AND ACCOMPANYING DATA OR COMMENTS:

Form R	General Arrangement	Emission Estimate
Form S	Flow Sheet	
Environmental checklist	Plot Plan	
Narrative Description	Specifications	

### 38. CERTIFICATION:

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION AND THE ACCOMPANYING FORMS, PLANS, AND SUPPLEMENTAL DATA DESCRIBED HEREIN IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND COMPLETE.

### 39. SIGNATURE

### 40. DATE

### 41. TYPE OR PRINT NAME

### 42. TITLE

### 43. PHONE

Gerald J. Brown

Safety & Environmental Manager

(206) 623-5596



<b>PUGET SOUND AIR POLLUTION CONTROL AGENCY</b> Engineering Division ■ 110 Union Street, Room 500 ■ Seattle, Washington 98101-2038 ■ (206) 689-4052			
<b>NOTICE of CONSTRUCTION &amp; APPLICATION for APPROVAL</b>		<b>FORM R</b>	
FOR AIR POLLUTION CONTROL EQUIPMENT ONLY		For Agency Use: Date: _____ N/C# _____	

\*Note: Information required by Section 1a must be completed for this form to be accepted for review.

1	a. Complete the Sections Indicated* <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12	b. Company (or owner) Installation Address  c. Company (or owner) Name Ash Grove Cement Company d. Applicant  e. Prepared by (name and title) f. Prepared by (signature) g. Phone	
2	a. AIR POLLUTION CONTROL EQUIPMENT c. Number of Units 1	b. Type of Equipment Baghouse f. Capacity 1000 CFM	c. Make & Model DCL FS-175 g. Auxiliary Equipment d. Dimensions (LxWxH) 74"x54"x33.5" h. Connected to: Loading Spout
3	a. BAGHOUSE c. Material Used Polypropylene	b. Number of Bags 60 f. e. Shaking Cycle (auto or manual rapping or reverse air) Pulse @ 30 second intervals g. Air-to-Cloth Ratio (ft/minute) 5.7:1	d. Cloth Area 172 sq. ft. h. Connected to: Loading Spout
4	a. ELECTROSTATIC PRECIP. c. Area (sq ft)	b. Electrode Separation (ft) f. Voltage	c. Coll. Electrode Dimensions LxW (ft) g. Coll. Electrode or Plate Area (sq ft) d. Mean Velocity of Gas (ft/sec) h. Connected to:
5	a. BURNERS c. Number of Units; Ignition	b. Type of Burner, Fuel f.	c. Make & Model g. CFM Exhausted (Temperature) _____ (____ °F) d. Rating h. Connected to:
6	a. STACKS, VENTS c. No. of Vents; Material Used	b. Type of Vent f.	c. Dimensions (LxWxH) g. CFM Exhausted (Temperature) _____ (____ °F) d. Dampers h. Connected to:
7	a. SCRUBBERS c. Composition of Solution	b. Type of Flow (spray, bubbler) f.	c. Packing Type/Size g. Flow Rate (GPM) d. Pressure Drop (inches of water) h. Make-Up (GPM)
8	a. FANS c. Number of Fans; Material Used (1) mild steel	b. Type of Fan (designate blade) Paddle Wheel f. Mounted on Baghouse	c. Make & Model DCL g. CFM Exhausted (Temp @ SP) 1000 (100 °F) d. Motor Data 3600 RPM 3 HP h. Connected to: Baghouse
9	a. CYCLONES c. Number of Units; Material Used	b. Type of Cyclone <input type="checkbox"/> Common <input type="checkbox"/> Split Duct <input type="checkbox"/> Multiclone f. Body Dia. (in.)      Outlet Dia. (in.)	c. Make & Model g. Body Height (in.)      Efficiency d. Inlet Area (sq ft) h. Connected to:
10	a. COLLECTION DATA c. Types of Pollutants <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Particulate <input type="checkbox"/> Odor	b. Description of Collected Matl. Cement Clinker Dust f.	c. Amount Collected (lbs/day) 0 g. Collection Efficiency 99.99% d. Particle Size (microns avg.) 40 Micron h. Disposition of Collection Waste To Rail Car
11	a. GAS FLOW c. Pressure Drop	b. Actual CFM f. Efficiency	e. SCFM (Reg I Standard) g. Inlet and Outlet Pollutant Concentrations d. Temperature (°F) Ambient In _____ Out _____ h.
12	a. ADDITIONAL DATA c. <input checked="" type="checkbox"/> Submit Narrative Description of Process	b. <input checked="" type="checkbox"/> Attach Brochure f. <input type="checkbox"/> Submit Source Test Data	c. <input checked="" type="checkbox"/> Attach Plans/Specs g. <input type="checkbox"/> Submit Modeling Data d. <input checked="" type="checkbox"/> Attach Emission Estimate (show calculation) h. <input checked="" type="checkbox"/> Attach Schedule of Equipment with Make, Model, Capacity i. <input type="checkbox"/> j. <input type="checkbox"/> k. <input type="checkbox"/> l. <input type="checkbox"/>

Process Equip. being constructed

<b>PUGET SOUND AIR POLLUTION CONTROL AGENCY</b> Engineering Division • 110 Union Street, Suite 500 • Seattle, Washington 98101-2038 • (206) 689-4052			
<b>NOTICE of CONSTRUCTION &amp; APPLICATION for APPROVAL</b>		<b>FORM S</b>	
FOR BASIC PROCESS EQUIPMENT		For Agency Use: Date: _____ N/C# _____	

\*Note: Information required by Section 1a must be completed for this form to be accepted for review.

1	a. Complete the Sections Indicated* <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12	b. Company (or owner) Installation Address <span style="float: right;">WA 98134</span> Ash Grove 3801 E. Marginal Wy. So., Seattle	
	c. Company (or owner) Name Ash Grove Cement Company	d. Applicant	
	e. Prepared by (name and title) Gerald J. Brown Safety & Env. Manager	f. Prepared by (signature)	g. Phone (206) 623-5596
2	a. PROCESS EQUIPMENT	b. Title Rail Car Loading Spout	c. Make & Model DCL
	d. Dimensions (LxWxH) 24"x6'-0" LG	e. # of Units; Rated Capacity (1) 250 TPH	f. Auxiliary Equipment
		g. Connected to: Clinker Reclaim Elevator	
3	a.	b.	c.
	e.	f.	g. Equipment
			h. Connected to:
4	a. BURNERS	b. Type of Burner, Fuel	c. Make & Model
	d. Rated Capacity	e. # of Units; Ignition Method	f. CFM Exhausted (Temperature) _____ (____ °F)
			h. Connected to:
5	a. STACKS, VENTS, AND EXHAUST OPENINGS	b. Type of Vent	c. Dimensions
	d.	e. # of Vents; Material of Construction	f. CFM Exhausted (Temperature) _____ (____ °F)
			h. Connected to:
6	a. TANKS AND KETTLES	b. Type of Tank, Material	c. Dimensions (LxWxH) in inches
	d. Surface Area (sq. ft.) [ ] Closed [ ] Open	e. # of Tanks; Material of Construction	f. Auxiliary Equipment
			h. Connected to:
7	a. FANS	b. Type of Fan (designate blade) Paddle Wheel	c. Make & Model DCL
	d. Motor Data 3600 RPM 3 HP	e. # of Fans; Material of Construction (1) Mild Steel	f. CFM Exhausted (Temperature) 1000 (100 °F)
			h. Connected to: Dust Collector
8	a. OVENS & FURNACES	b. Type of Oven or Furnace	c. Make & Model
	d. Rated Capacity	e. # of Ovens or Furnaces; Material of Construction	f. CFM Exhausted (Temperature) _____ (____ °F)
			h. Connected to:
9	a. OPERATIONAL DATA	b. Type of Operation <input checked="" type="checkbox"/> Batch [ ] Continuous	c. Operating Schedule (normal) Shifts/Day: <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3
	d. Mode of Operations <input checked="" type="checkbox"/> Manual [ ] Auto [ ] Semi-Auto	e. Duration of Batch (hrs/batch) 1 1/2 hours	f. Daily # of Batches 3 avg 7 max
			h.
10	a. CONVEYORS	b. Type of Conveyor (pneumatic, belt)	c. Make & Model
	d. Capacity	e. Dimensions (LxWxH)	f. # of Pickups # of Discharge Points
			h. Connected to:
11	a. GAS FLOW	b. Actual CFM	c. SCFM (Reg I Standard)
	d. Temperature (°F) In _____ Out _____	e. Pressure Drop	f. Inlet and Outlet Pollutant Concentrations
			h.
12	a. ADDITIONAL DATA	b. [ ] Attach Brochure	c. [ ] Attach Plans/Specs
	d. [ ] Attach Emission Estimate (show calculation)	e. <input checked="" type="checkbox"/> Submit Narrative Description of Process	f. [ ] Submit Source Test Data
		g. [ ] Submit Modeling Data	h. [ ] Attach Schedule of Equipment with Make, Model, Capacity
	i. [ ]	j. [ ]	k. [ ]
			l. [ ]



February 17, 1994

REF: RAILCAR LOADING SPOUT

The purpose of this project is to install a transfer spout for loading cement clinker into closed rail road hopper cars.

A diverter gate, chute and loading spout with an integral dust collector will be added onto an existing bucket elevator located on the south side of the clinker shed. The bucket elevator is currently used to transfer clinker stored in the shed to an elevated conveyer belt for transport to the clinker silos.

The diverter gate will as necessary, direct the flow of material at 250 TPH into the railcar loading spout. The clinker diverted into the spout is gravity feed into an awaiting railcar. The bucket elevator, diverter gate, chute and spout will enclose the clinker to prevent fugitive dust emission generated by material transfer.

The dust collector is an integral part of the loading spout and will clean and vent entrained air and air displaced from the railcar. Dedusting is by a 1000 CFM fabric filter. Fines collected will be discharged directly into the railcar.

PUGET SOUND AIR POLLUTION CONTROL AGENCY

110 Union Street, Suite 500

Seattle, Washington 98101

ENVIRONMENTAL CHECKLIST

WAIT - You may not need to fill out the attached checklist.  
Please read and check the following:

Because of the State Environmental Policy Act, the action for which you are filing a Notice of Construction and Application for Approval to this Agency requires the completion of an environmental checklist.

BUT: If you can answer "yes" to either of the following questions with respect to the action being proposed, the attached checklist need not be completed:

1. I have obtained a State, City or County Permit and filled out an environmental checklist.

☐

Yes

☒

No

If you answered "yes", give State, City or County Department and date, and attach a copy of the checklist.

2. An environmental checklist or assessment has previously been filled out for another agency.

☐

Yes

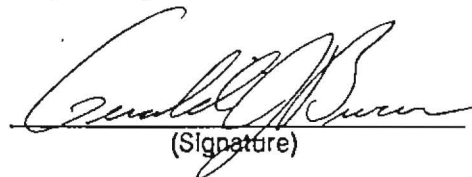
☒

No

If "yes", give agency and date, and attach a copy of the checklist.

If your answer to both of the above questions was "no", you must fill out the attached environmental checklist.

Prepared by:

  
(Signature)

Gerald J. Brown

(Print Name)

Safety & Environmental Mgr.

(Title)



Handwritten notes in the left margin.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The environmental check list prepared in December 1988 for  
construction of the plant is directly related to this proposal.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

NONE

10. List any government approvals or permits that will be needed for your proposal, if known.

NONE

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

The purpose of this project is to install a transfer spout for loading  
cement clinker into closed railroad hopper cars. A diverter gate, chute  
and spout with an integral dust collector will be added to an existing  
bucket elevator on the south side of the clinker shed. The bucket  
elevator is currently used to transfer clinker stored in the shed to an  
elevated conveyor belt for transport to the clinker silos. The diverter  
gate will as necessary, direct the flow of material at 250 TPH into the  
rail car. The clinker diverted into the spout is gravity fed into the  
awaiting railcar. The bucket elevator, diverter gate, and spout will  
enclose the clinker to prevent fugitive dust emission generated by the  
material transfer. The dust collector is an integral part of the loading  
spout and will clean and vent entrained air and air displaced from the  
railcar. Dedusting is by a 1000 cfm fabric filter. Fines collected will  
be discharged directly into the railcar.



12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The location is at the Ash Grove Cement Plant, 3801 E. Marginal Way South, Seattle, WA 98134 on the south side of the existing clinker shed.

## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other: \_\_\_\_\_
- b. What is the steepest slope on the site (approximate percent slope)?  
2 percent
- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. Hydraulic dredge fill overlying alluvial sands and silts with glacially consolidated sandy silt at considerable depth about 200 feet below the existing ground surface elevation.
- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

NO

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

NONE

- f. Could erosion occur as a result of clearing, construction or use? If so, generally describe.

NO

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Approximately 40% is presently impervious. this will remain unchanged.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:  
None required, as it will only be necessary to install footings for the chute support frame.

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial, wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known. Construction may generate minor amounts of fugitive dust during operation, dust generated by the transfer of material will be contained within the chute and controlled to below permitted levels at discharge by the fabric filter baghouse.
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

NO

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Process is vented by fabric filter dust collectors.

3. Water

- a. Surface:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The Duwamish River flows along the west border of the plant site.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

NO

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

NONE



- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

NO

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

NO

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

NO

b. Ground:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose and approximate quantities if known.

NO

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the systems, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

NONE

c. Water Runoff (including storm water):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known): Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water runoff will continue to be collected in the existing plant storm water system.

2) Could waste material enter ground or surface waters? If so, generally describe.

NO

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

NONE

#### 4. Plants

a. Check or circle types of vegetation found on the site:

☒ deciduous tree: alder, maple, aspen, other

☒ evergreen tree: fir, cedar, pine, other

☒ shrubs

☒ grass

☐ pasture

☐ crop or grain

☐ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

☐ water plants: water lily, eelgrass, milfoil, other

☐ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

NONE

c. List threatened or endangered species known to be on or near the site.

NONE

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

NONE

#### 5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site: NONE

Birds: hawk, heron, eagle, songbirds, other:



Mammals: deer, bear, elk, beaver, other:

---

Fish: bass, salmon, trout, herring, shellfish, other:

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- b. List any threatened or endangered species known to be on or near the site.

NONE

- c. Is the site part of a migration route? If so, explain.

NO

- d. Proposed measures to preserve or enhance wildlife, if any:

NONE

6. Energy and Natural Resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity to power dust collector fan.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

NO

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

NONE

7. Environmental Health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

Exposure to fugitive dust.

- 1) Describe special emergency services that might be required:

NONE

- 2) Proposed measures to reduce or control environmental health hazards, if any:

Fugitive dust will be controlled by fabric filter dust collectors.

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Various types of heavy machinery are located at the plant site.

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

No perceivable increase in noise generation is expected during construction. A minor increase may be perceived at the location during operation.

- 3) Proposed measures to reduce or control noise impacts, if any:

NONE

8. Land and Shoreline use

a. What is the current use of the site and adjacent properties?

Heavy manufacturing

b. Has the site been used for agriculture? If so, describe.

NO

c. Describe any structures on the site.

Site contains a 14 foot diameter cement kiln, 260 foot tall preheater tower, raw material silos, raw mill building, finish mill building, packhouse building, motor controls centers, plant office, and sales office building.

d. Will any structures be demolished? If so, what?

NO

e. What is the current zoning classification of the site?

GENERAL INDUSTRIAL 1 (IGI)

f. What is the current comprehensive plan designation of the site?

Industrial

g. If applicable, what is the current shoreline master program designation of the site?

Urban Industrial (UI)



- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

NO

- i. Approximately how many people would reside or work in the completed project?

NONE

- j. Approximately how many people would the completed project displace?

NONE

- k. Proposed measures to avoid or reduce displacement impacts, if any:

NOT APPLICABLE

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

NOT APPLICABLE

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

NOT APPLICABLE

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

NOT APPLICABLE

- c. Proposed measures to reduce or control housing impacts, if any:

NOT APPLICABLE

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

72 feet corrugated cement panels.

- b. What views in the immediate vicinity would be altered or obstructed?

NONE

- c. Proposed measures to reduce or control aesthetic impacts, if any:

NOT APPLICABLE

11. Light and Glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

NONE

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

NO

- c. What existing off-site sources of light or glare may affect your proposal?

NONE

- d. Proposed measures to reduce or control light and glare impacts, if any:

NOT APPLICABLE

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?

NONE

- b. Would the proposed project displace any existing recreational uses? If so, describe.

NO

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

NOT APPLICABLE

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

NO

- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

NONE



- c. Proposed measures to reduce or control impacts, if any:

NOT APPLICABLE

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

East Marginal Way located on the east side of the plant. Access is by of an existing drive entrance at the northeast corner of the property.

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No, closest transit stop is 1000 feet away.

- c. How many parking spaces would the completed project have? How many would the project eliminate?

Current levels will not change.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

NO

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

Rail transportaiton of closed hopper cars.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

There should be no noticable increase in railcar traffic to and from the site.

g. Proposed measures to reduce or control transportation impacts, if any:

NONE

15. Public Services

a. Would the project result in an increased need for public services (for example, fire protection, police protection, health care, schools, other)? If so, generally describe.

NO

b. Proposed measures to reduce or control direct impacts on public services, if any.

NOT APPLICABLE

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

b. Describe the utilities that are proposed for the project, the utility providing the service, and service, and the general construction activities on the site or in the immediate vicinity which might be needed.

NONE

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: \_\_\_\_\_

Date Submitted: \_\_\_\_\_

2/18/94

#### D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

(Do not use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substance; or production of noise?

Small amounts of dust may be emitted from the baghouse. Transfer of material in the chute may produce a slight increase in noise levels at the location only.

Proposed measures to avoid or reduce such increase are:

A fabric filter dust collector will be installed at the discharge end of the chute. Transferred material will be completely enclosed by the chute and at transfer points.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

The proposal will have negligible impact.

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

NOT APPLICABLE

3. How would the proposal be likely to deplete energy or natural resources?

Negligible increase in power consumption need to operated the dust collector.

Proposed measures to protect or conserve energy and natural resources are:

NONE



4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

NOT APPLICABLE

Proposed measures to protect such resources or to avoid or reduce impacts are:

NOT APPLICABLE

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

NOT APPLICABLE

Proposed measures to avoid or reduce shoreline and land use impacts are:

NOT APPLICABLE

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

No increase in demand on transportation, public services, or utilities.

Proposed measures to reduce or respond to such demand(s) are:

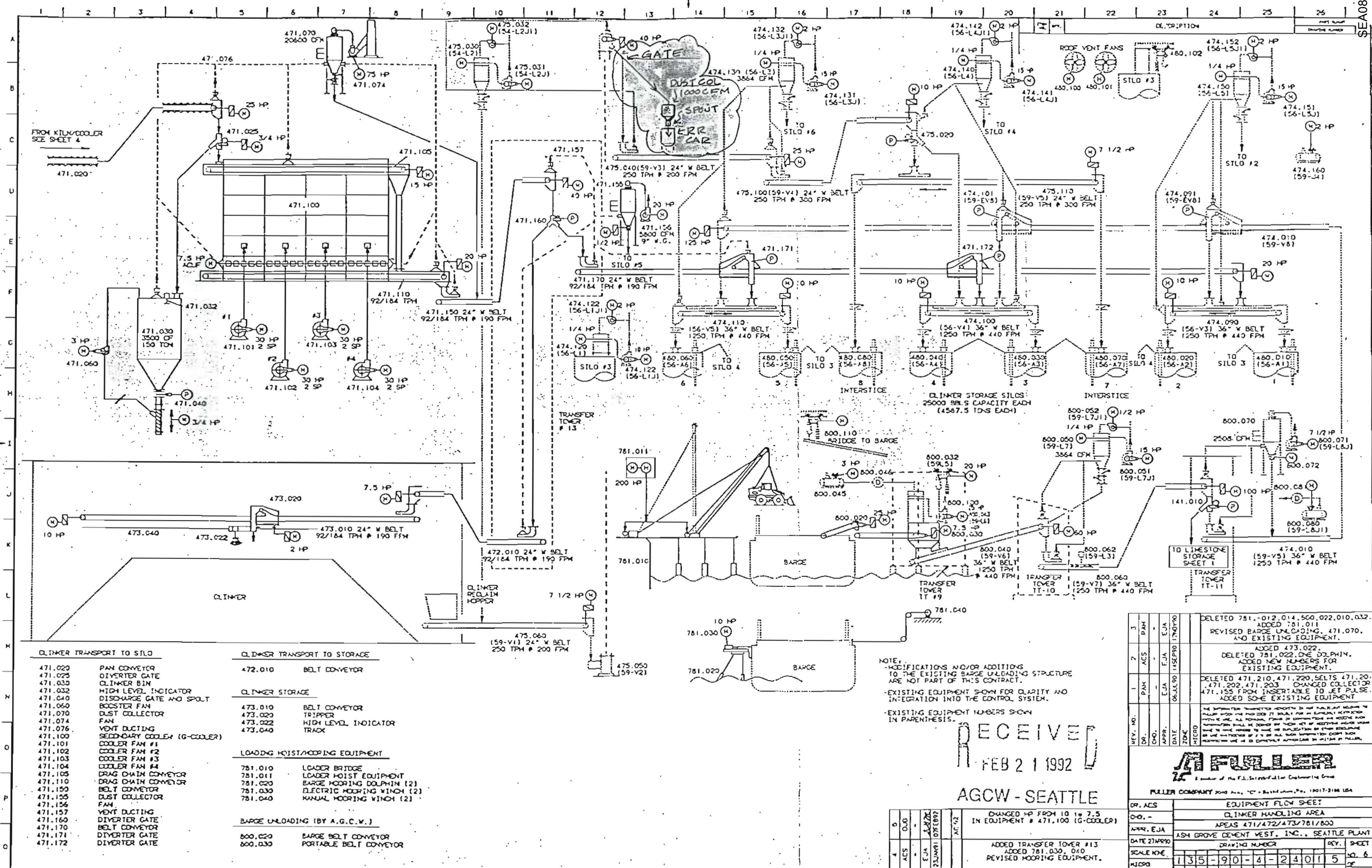
NOT APPLICABLE

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

DOES NOT APPLY







NOTE:

- MODIFICATIONS AND/OR ADDITIONS TO THE EXISTING BARGE UNLOADING STRUCTURE ARE NOT PART OF THIS CONTRACT.
- EXISTING EQUIPMENT SHOWN FOR CLARITY AND INTEGRATION INTO THE CONTROL SYSTEM.

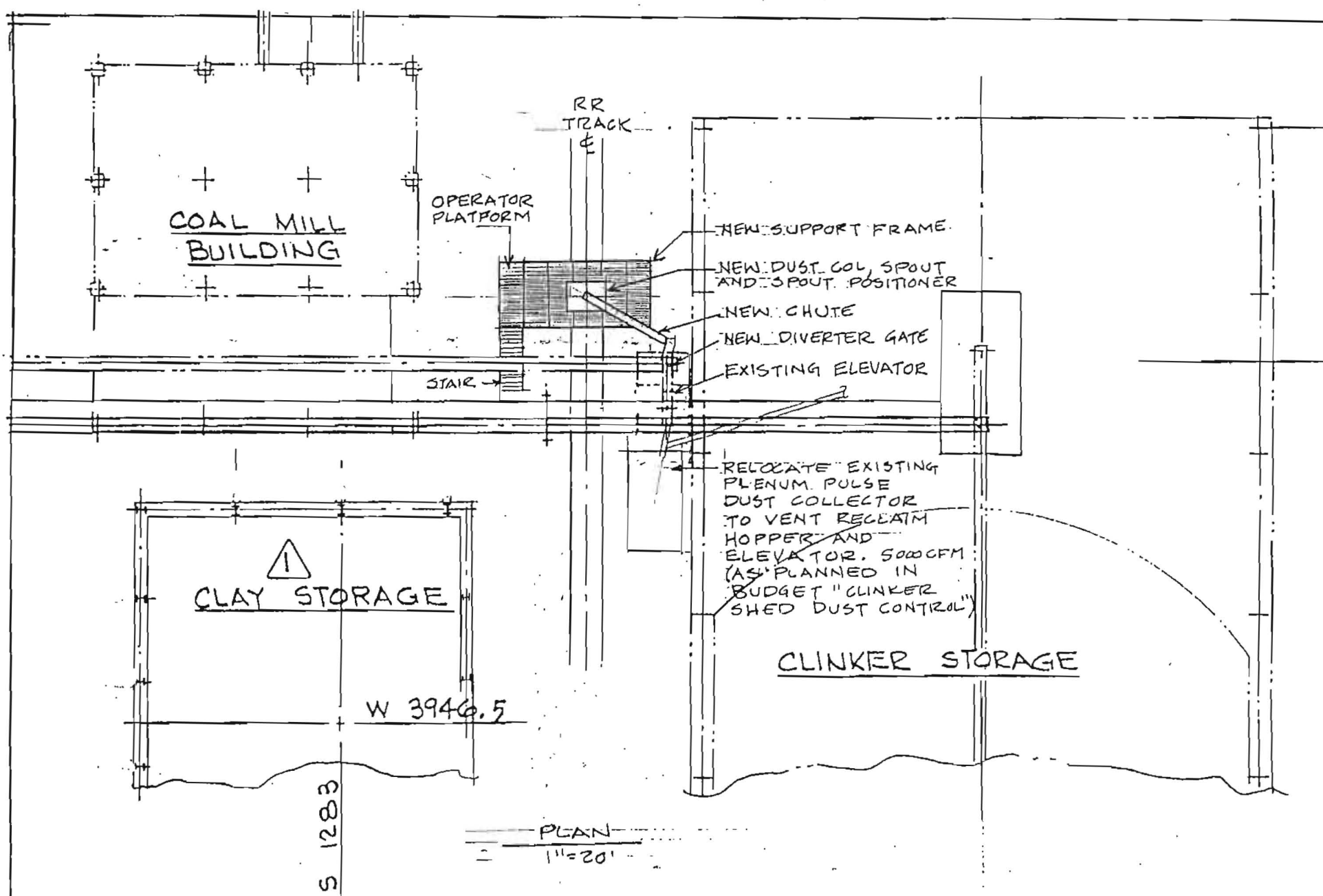
RECEIVED  
FEB 21 1992

AGCW - SEATTLE

6	O.O.	<del>EVA</del>	OTHER?	AC'92	CHANGED HP FROM 10 TO 7.5 IN EQUIPMENT # 471,100 (G-COOLER)
4	AES	EVA	JANUARY		ADDED TRANSFER TOWER #13 ADDED 781.030, 040 REVISED MOBILE EQUIPMENT.

[illegible]

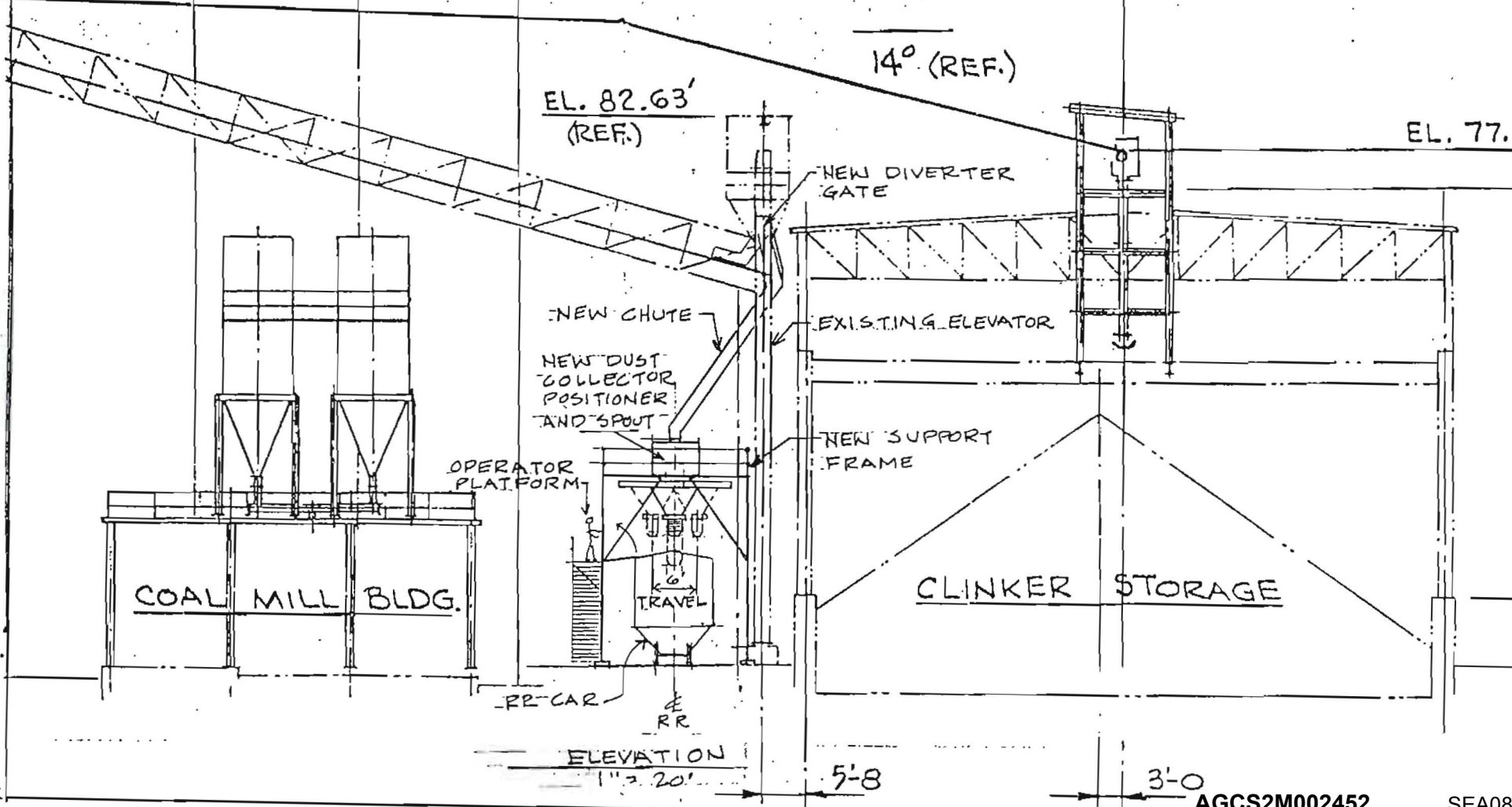


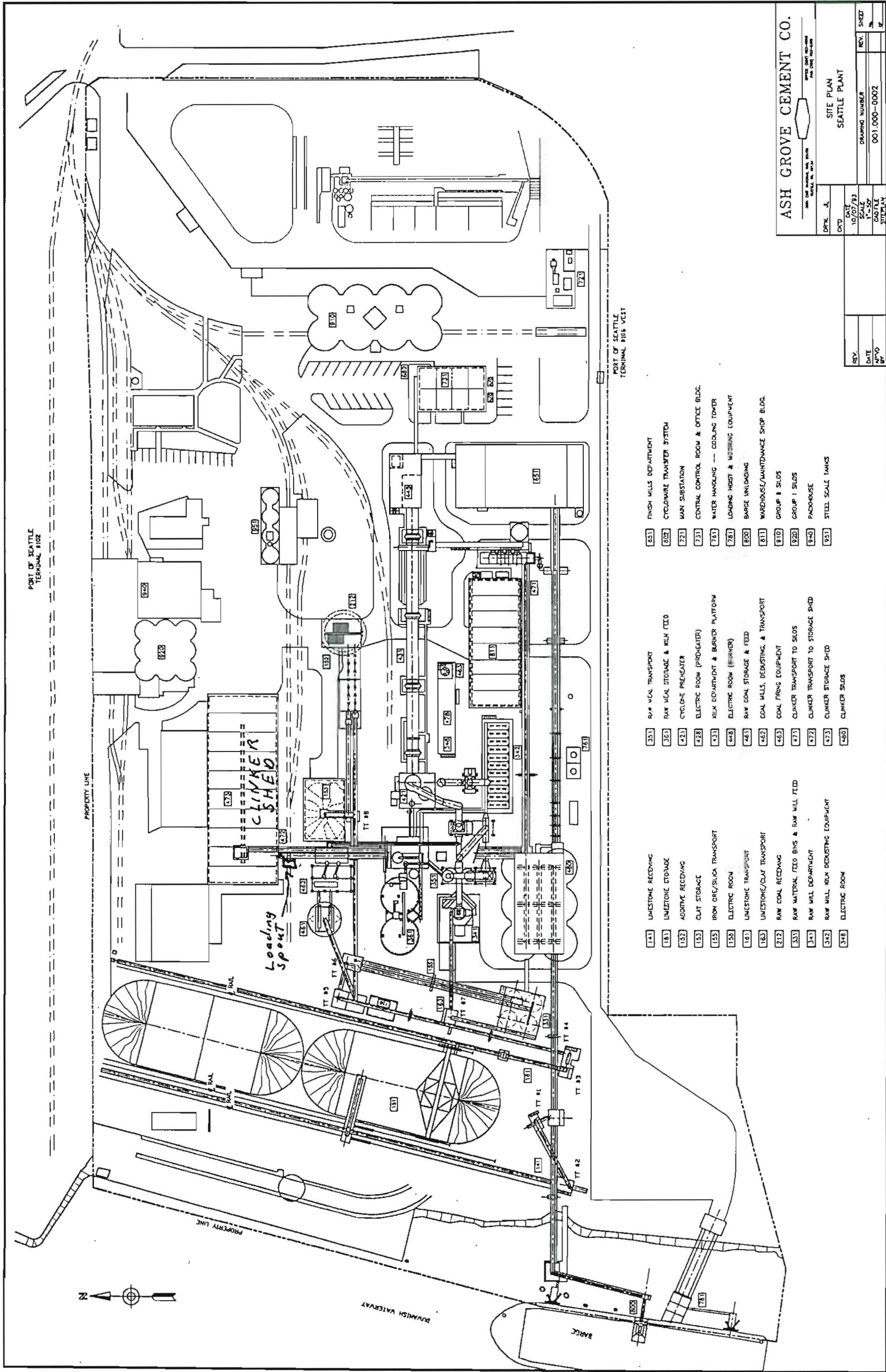


OF EXIST.  
THRU  
TRUSS  
.00 (REF.)

2.32° (REF.)

CLINKER RAIL LOADOUT  
2/15/94 R. JONES





ASH GROVE CEMENT CO.		SITE PLAN	
1000 1ST AVENUE, SEATTLE, WASH. 98101		SEATTLE PLANT	
DATE	10/07/83	DRAWING NUMBER	001.000-0002
SCALE	1"=50'	REV.	
CAD FILE		SHEET	
SUBMIT			

- |     |  |     |                                    |     |                                     |
|-----|--|-----|------------------------------------|-----|-------------------------------------|
| 141 | UNESTONE RECEIVING                     | 351 | RAW MCL TRANSPORT                  | 651 | FINISH MILLS DEPARTMENT             |
| 181 | UNESTONE STORAGE                       | 361 | RAW MCL STORAGE & RUN TID          | 652 | CYCLONE TRANSFER SYSTEM             |
| 152 | ADDITIVE RECEIVING                     | 421 | CYCLONE PREHEATER                  | 721 | WATER SUBSTATION                    |
| 153 | CLAY STORAGE                           | 428 | ELECTRIC ROOM (PROLATER)           | 731 | CENTRAL CONTROL ROOM & OFFICE BLDG. |
| 155 | IRON ORE/SILICA TRANSPORT              | 431 | MILK DEPARTMENT & BURNER PLATFORM  | 761 | WATER HANDLING --- COOLING TOWER    |
| 156 | ELECTRIC ROOM                          | 448 | ELECTRIC ROOM (BURNER)             | 781 | LOADING HOST & WEIGHING EQUIPMENT   |
| 161 | UNESTONE TRANSPORT                     | 481 | RAW COAL STORAGE & FEED            | 800 | BARGE UNLOADING                     |
| 163 | UNESTONE/CLAY TRANSPORT                | 482 | COAL MILLS, DEDUSTING, & TRANSPORT | 811 | WAREHOUSE/MAINTENANCE SHOP BLDG.    |
| 212 | RAW COAL RECEIVING                     | 483 | COAL FIRING EQUIPMENT              | 910 | GROUP II SILOS                      |
| 331 | RAW MATERIAL FEED BINS & RAW MILL FEED | 471 | CLINKER TRANSPORT TO SILOS         | 920 | GROUP I SILOS                       |
| 341 | RAW MILL DEPARTMENT                    | 472 | CLINKER TRANSPORT TO STORAGE SHED  | 940 | PACKHOUSE                           |
| 342 | RAW MILL ROLL DEDUSTING EQUIPMENT      | 473 | CLINKER STORAGE SHED               | 951 | STEEL SCALE TANKS                   |
| 348 | ELECTRIC ROOM                          | 480 | CLINKER SILOS                      |     |                                     |